

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:12:34 ON 11 FEB 2002
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STRUCTURE FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9
DICTIONARY FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
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jan.delaval@uspto.gov

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

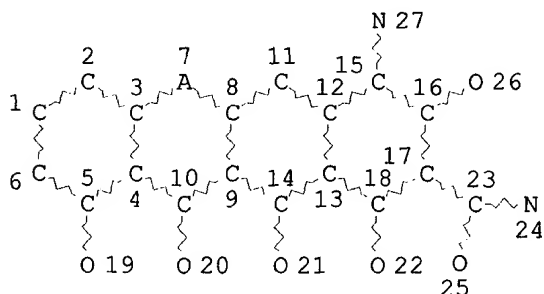
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

=> d sta que 148

L1 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

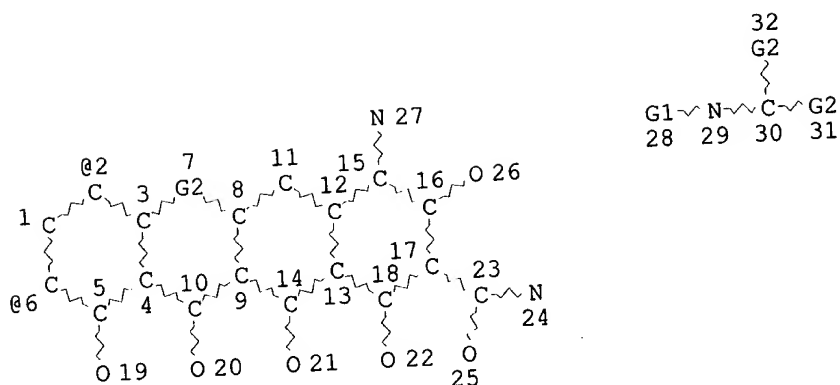
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

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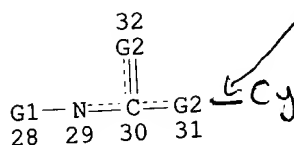
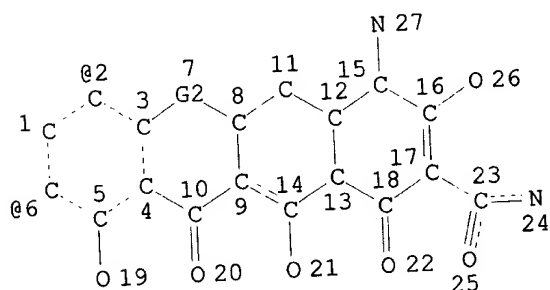
L4 STR



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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE
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 L7 STR



① subset

②

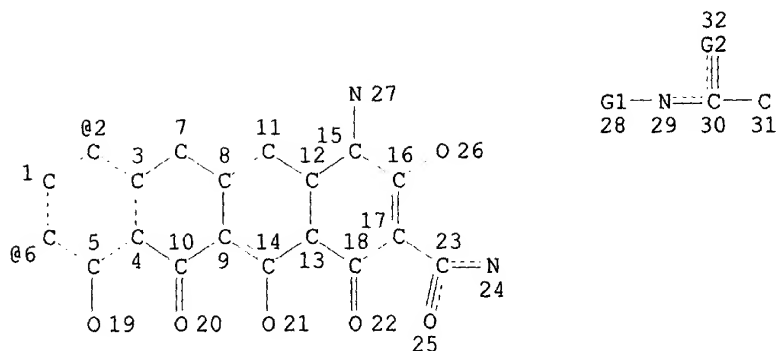
new search
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VAR G1=2/6
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE
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 L10 STR

G₁-N-H_y



VAR G1=2/6

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

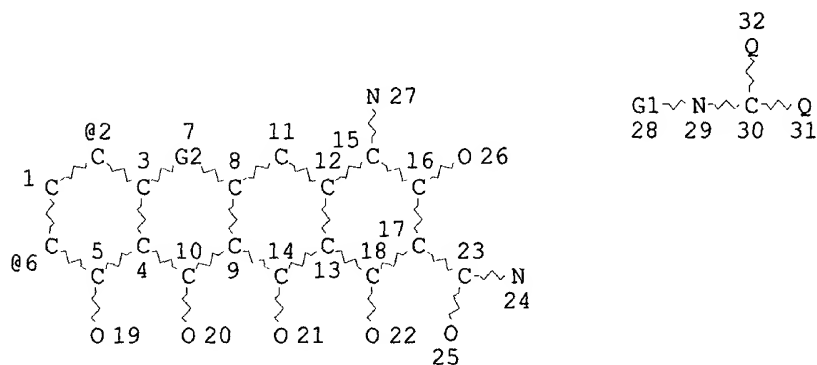
RSPEC 1

NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE

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 L12 115 SEA FILE=REGISTRY ABB=ON PLU=ON L8 NOT L11
 L15 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L12
 L16 12 SEA FILE=HCAPLUS ABB=ON PLU=ON (PARATEK/PA OR PARATEK/CS OR
 "PARATEK INC ABERDEEN MD 21001 USA"/CS OR "PARATEK MICROWAVE
 INC USA"/PA OR "PARATEK MICROWAVE INC USA"/CS OR "PARATEK
 PHARACEUTICALS INC"/PA OR "PARATEK PHARACEUTICALS INC"/CS OR
 "PARATEK PHARMACEUTICALS BOSTON MA 02111 USA"/CS OR "PARATEK
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 "PARATEK PHARMACEUTICATS INC BOSTON MA 02111 USA"/CS)
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 L18 35 SEA FILE=HCAPLUS ABB=ON PLU=ON ("NELSON MARK"/AU OR "NELSON
 MARK LESLIE"/AU OR "NELSON MARK LOGE"/AU OR "NELSON MARK
 LOUIS"/AU)
 L19 125 SEA FILE=HCAPLUS ABB=ON PLU=ON ("LEVY S"/AU OR "LEVY S
 B"/AU)
 L20 221 SEA FILE=HCAPLUS ABB=ON PLU=ON ("LEVY STUARD B"/AU OR "LEVY
 STUART"/AU OR "LEVY STUART B"/AU)
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 TODD"/AU OR "BOWSER TODD E"/AU OR "BOWSER TODD EVERETT"/AU)
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 Y"/AU OR "ISMAIL M YEHIA"/AU OR "ISMAIL M YEHIO"/AU)
 L24 13 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISMAIL MOHAMED"/AU
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 L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON "ISMAIL MOHAMMAD"/AU
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 L28 10677 SEA FILE=HCAPLUS ABB=ON PLU=ON (TUFT/PA OR TUFT/CS OR "TUFT
 S COLL MA"/CS OR "TUFT S UNIV MED SCHOOL BOSTON MA"/CS OR
 "TUFT UNIV MEDFORD MA"/CS OR TUFTS/PA OR TUFTS/CS)
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 L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR
 L28)
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 L31 1 SEA FILE=HCAPLUS ABB=ON PLU=ON "PRECHETTE ROGER"/AU

L32 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 AND (L30 OR L31)
 L33 3 SEA FILE=HCAPLUS ABB=ON PLU=ON (L29 OR L32)
 L34 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 AND L33
 L35 SEL PLU=ON L34 1- RN : 394 TERMS
 L36 394 SEA FILE=REGISTRY ABB=ON PLU=ON L35
 L37 367 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND L36
 L38 92 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND L6
 L39 275 SEA FILE=REGISTRY ABB=ON PLU=ON L37 NOT L38
 L40 19 SEA FILE=REGISTRY ABB=ON PLU=ON L39 AND (C31H33BRN4O9 OR
 C32H36N4O9 OR C31H42N4O9 OR C28H36N4O10 OR C28H35N3O9 OR
 C31H34N4O9 OR C30H40N4O9 OR C29H36N4O9 OR C32H34F3N5O9 OR
 C33H40N6O8 OR C33H37N5O9 OR C26H31N3O9 OR C32H35N5O10 OR
 C31H33FN4O9 OR C33H37N3O9 OR C27H31CL3N4O9 OR C31H33CLN4O9)
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 L43 88 SEA FILE=REGISTRY ABB=ON PLU=ON L38 NOT (389625-00-7 OR
 389139-15-5 OR 365277-33-4 OR 161320-33-8)
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 L45 STR



VAR G1=2/6
 VAR G2=O/S/N/C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE
 L46 120 SEA FILE=REGISTRY SUB=L6 SSS FUL L45
 L48 139 SEA FILE=REGISTRY ABB=ON PLU=ON (L44 OR L46)

=> d his

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 L2 50 S L1
 L3 5035 S L1 FUL
 SAV L3 GERSTL823/A
 L4 STR L1
 L5 29 S L4 SAM SUB=L3
 L6 696 S L4 FUL SUB=L3
 SAV L6 GERSTL823A/A
 L7 STR L4
 L8 630 S L7 FUL SUB=L6

SAV L8 GERSTL832B/A
 L9 66 S L6 NOT L8
 L10 STR L7
 L11 515 S L10 FUL SUB=L8
 SAV L11 GERSTL823C/A
 L12 115 S L8 NOT L11
 L13 STR L10
 L14 0 S L13 FUL SUB=L6
 SAV L14 GERSTL832D/A

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L15 9 S L12
 E PARATEK/PA,CS
 L16 12 S E3-E14
 E NELSON M/AU
 L17 78 S E3,E20
 E NELSON MARK/AU
 L18 35 S E3,E16-E18
 E LEVY S/AU
 L19 125 S E3,E5
 E LEVY STU/AU
 L20 221 S E4-E6
 E FRECHETTE R/AU
 L21 24 S E3,E4,E8,E9
 E BOWSER T/AU
 L22 6 S E3,E9-E11
 E ISMAIL M/AU
 L23 162 S E3,E30-E32
 E ISMAIL MOH/AU
 L24 13 S E7
 L25 2 S E27
 L26 6 S E28
 L27 4 S E52
 E TUFT/PA,CS
 L28 10677 S E3-E7,E12,E13
 L29 3 S L15 AND L16-L28
 E NELSON MARK L/AU
 L30 24 S E3
 E PRECHETTE R/AU
 L31 1 S E4
 L32 3 S L15 AND L30,L31
 L33 3 S L29,L32
 L34 3 S L3 AND L33

FILE 'REGISTRY' ENTERED AT 13:41:48 ON 11 FEB 2002

FILE 'HCAPLUS' ENTERED AT 13:41:48 ON 11 FEB 2002

SET SMARTSELECT ON
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FILE 'REGISTRY' ENTERED AT 13:41:50 ON 11 FEB 2002

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 L37 367 S L3 AND L36
 L38 92 S L37 AND L6
 L39 275 S L37 NOT L38
 L40 19 S L39 AND (C31H33BRN4O9 OR C32H36N4O9 OR C31H42N4O9 OR C28H36N4
 L41 1 S L40 AND C32H36N4O9 AND 6/NR
 L42 18 S L40 NOT L41
 L43 88 S L38 NOT (389625-00-7 OR 389139-15-5 OR 365277-33-4 OR 161320-
 L44 106 S L42,L43
 L45 STR L4
 L46 120 S L45 FUL SUB=L6
 SAV L46 GERSTL832E/A
 DEL GERSTL832E/A
 SAV L46 GERSTL823E/A

L47 33 S L46 NOT L44
L48 139 S L44,L46
SAV L48 GERSTL823F/A

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L49 0 S L48

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L53 3 S L51,L52
L54 6 S L50 NOT L53

FILE 'USPATFULL, USPAT2' ENTERED AT 14:12:04 ON 11 FEB 2002
L55 8 S L48

FILE 'REGISTRY' ENTERED AT 14:12:34 ON 11 FEB 2002

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 14:12:45 ON 11 FEB 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:12:45 ON 11 FEB 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

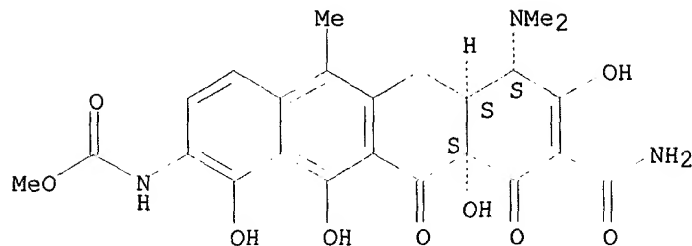
=> d l55 bib abs hitrn fhitr tot

L55 ANSWER 1 OF 8 USPATFULL
AN 2000:174627 USPATFULL
TI Tetracycline derivatives
IN Vu, Chi Bao, Chestnut Hill, MA, United States
PA Pfizer Inc, New York, NY, United States (U.S. corporation)
PI US 6165999 20001226
WO 9634852 19961107
AI US 1998-945775 19980223 (8)
WO 1996-IB335 19960417
19980223 PCT 371 date
19980223 PCT 102(e) date

DT Utility
FS Granted
EXNAM Primary Examiner: Barts, Samuel
LREP Richardson, Peter C., Ginsburg, Paul H., Levine, Jacob M.
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2428
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel tetracycline derivatives, to intermediates used in their preparation, to pharmaceutical compositions containing them and to their medicinal use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 184593-35-9P
(prepn. of antibacterial tetracycline derivs.)
IT 184593-34-8P 184593-37-1P 184593-41-7P
184593-66-6P 184593-69-9P
(prepn. of antibacterial tetracycline derivs.)
IT 184593-35-9P
(prepn. of antibacterial tetracycline derivs.)
RN 184593-35-9 USPATFULL
CN Carbamic acid, [9-(aminocarbonyl)-7-(dimethylamino)-6,6a,7,10,10a,11-hexahydro-1,8,10a,12-tetrahydroxy-5-methyl-10,11-dioxo-2-naphthacenyl]-, methyl ester, [6aS-(6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



X

L55 ANSWER 2 OF 8 USPATFULL
 AN 1999:37286 USPATFULL
 TI 7-(substituted)-8-(substituted)-9-(substitued amino)-6-demethyl-6-deoxytetracyclines
 IN Sum, Phaik-Eng, Pomona, NY, United States
 Lee, Ving J., Monsey, NY, United States
 Hlavka, Joseph J., Tuxedo Park, NY, United States
 Testa, Raymond T., Cedar Grove, NJ, United States
 PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
 PI US 5886175 19990323
 AI US 1994-352310 19941208 (8)
 RLI Division of Ser. No. US 1994-214992, filed on 21 Mar 1994, now abandoned
 which is a continuation of Ser. No. US 1992-928598, filed on 13 Aug 1992, now abandoned
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Kestler, Kimberly J.
 LREP Szatkowski, T. S.
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 8288
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention provides compounds of the formulas ##STR1## which are useful as intermediates for the preparation of 6-demethyl-6-deotetracycline antibiotic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157579-07-2P 157579-18-5P 157579-22-1P
 157579-23-2P 157579-26-5P 157579-28-7P
 157579-29-8P 157579-30-1P 157579-31-2P
 157579-36-7P 157579-37-8P

(prepn. of, as antibiotic)

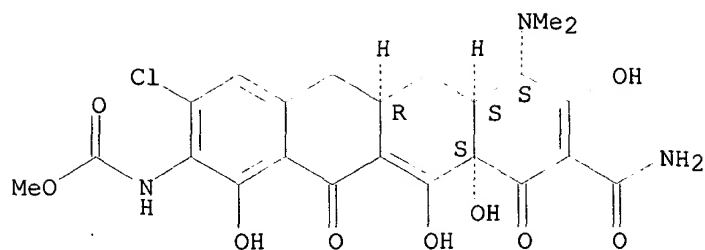
IT 157579-07-2P

(prepn. of, as antibiotic)

RN 157579-07-2 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-3-chloro-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L55 ANSWER 3 OF 8 USPATFULL

AN 96:55871 USPATFULL

TI 7-substituted-9-substituted amino-6-demethyl-6-deoxytetracyclines

IN Hlavka, Joseph J., Tuxedo Park, NY, United States

Sum, Phaik-Eng, Pomona, NY, United States

Gluzman, Yakov, Upper Saddle River, NJ, United States

Lee, Ving J., Monsey, NY, United States

Ross, Adma A., Airmont, NY, United States

PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)

PI US 5530117 19960625

AI US 1995-455923 19950531 (8)

RLI Division of Ser. No. US 1994-286096, filed on 4 Aug 1994 which is a continuation of Ser. No. US 1992-926091, filed on 13 Aug 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-771576, filed on 4 Oct 1991, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Prior, Kimberly J.

LREP Szatkowski, T. S.

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 7954

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The disclosure is drawn to novel 7-substituted-9-(substituted amino)-6-demethyl-6-deoxytetracycline compounds. These compounds are useful to treat infections caused by a wide spectrum of bacterial organisms, including those which are resistant to tetracycline.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 150231-22-4P 150231-23-5P 150251-75-5P

150251-76-6P 150251-77-7P 150251-78-8P

150521-69-0P 150521-70-3P

(prepn. of, as antibacterial)

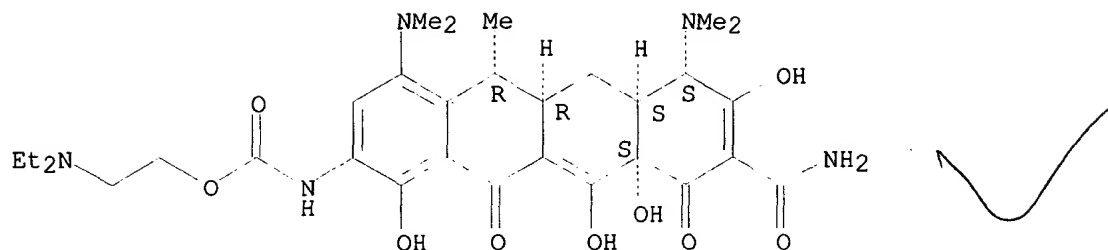
IT 150231-22-4P

(prepn. of, as antibacterial)

RN 150231-22-4 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 2-(diethylamino)ethyl ester, monohydrochloride, [5R-(5.alpha.,5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

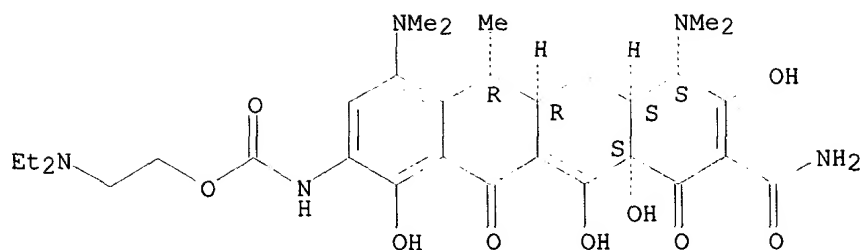
Absolute stereochemistry.



● HCl

L55 ANSWER 4 OF 8 USPATFULL
 AN 96:55747 USPATFULL
 TI Method for treating bacterial infection with novel 7-substituted-9-substituted amino 6-demethyl-6-deoxytetracyclines
 IN Hlavka, Joseph J., Tuxedo Park, NY, United States
 Sum, Phaik-Eng, Pomona, NY, United States
 Gluzman, Yakov, Upper Saddle River, NJ, United States
 Lee, Ving J., Monsey, NY, United States
 Ross, Adma A., Airmont, NY, United States
 PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
 PI US 5529990 19960625
 AI US 1995-455446 19950531 (8)
 RLI Division of Ser. No. US 1994-286096, filed on 4 Aug 1994 which is a continuation of Ser. No. US 1992-926091, filed on 13 Aug 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-771576, filed on 4 Oct 1991, now abandoned
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Prior, Kimberly J.
 LREP Szatkowski, T. S.
 CLMN Number of Claims: 2
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 7061
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The disclosure is drawn to a method of using novel 7-substituted-9-(substituted amino)-6-demethyl-6-deoxytetracycline compounds to treat infections caused by a wide spectrum of bacterial organisms, including those which are resistant to tetracycline.
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 IT 150231-22-4P 150231-23-5P 150251-75-5P
 150251-76-6P 150251-77-7P 150251-78-8P
 150521-69-0P 150521-70-3P
 (prepn. of, as antibacterial)
 IT 150231-22-4P
 (prepn. of, as antibacterial)
 RN 150231-22-4 USPATFULL
 CN Carbamic acid, [9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 2-(diethylamino)ethyl ester, monohydrochloride, [5R-(5.alpha.,5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L55 ANSWER 5 OF 8 USPATFULL

AN 96:36549 USPATFULL

TI 7-(substituted)-8-(substituted)-9-(substituted amino)-6-demethyl-6-deoxytetracyclines

IN Sum, Phaik-Eng, Pomona, NY, United States

Lee, Ving J., Monsey, NY, United States

Hlavka, Joseph J., Tuxedo Park, NY, United States

Testa, Raymond T., Cedar Grove, NJ, United States

PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)

PI US 5512553 19960430

AI US 1995-454966 19950531 (8)

RLI Division of Ser. No. US 1994-214992, filed on 21 Mar 1994, now patented, Pat. No. US 5430162 which is a continuation of Ser. No. US 1992-928598, filed on 13 Aug 1992

DT Utility

FS Granted

EXNAM Primary Examiner: Goldberg, Jerome D.

LREP Szatkowski, T. S.

CLMN Number of Claims: 1

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 6597

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compounds of formula ##STR1## wherein X, R and R.sup.1 are defined in the specification. These compounds are useful as antibiotic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157579-07-2P 157579-18-5P 157579-22-1P
157579-23-2P 157579-26-5P 157579-28-7P
157579-29-8P 157579-30-1P 157579-31-2P
157579-36-7P 157579-37-8P

(prepn. of, as antibiotic)

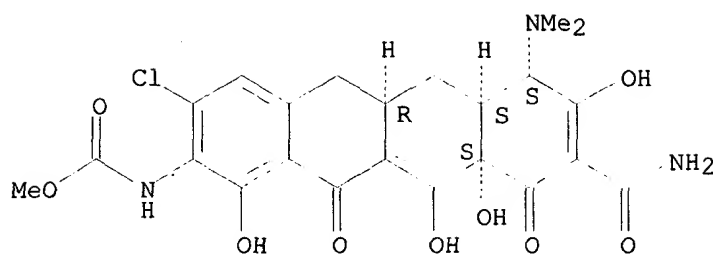
IT 157579-07-2P

(prepn. of, as antibiotic)

RN 157579-07-2 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-3-chloro-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L55 ANSWER 6 OF 8 USPATFULL

AN 96:17091 USPATFULL

TI 7-(substituted-9-(substituted amino)-6-demethyl-6-deoxytetracyclines

IN Sum, Phaik-Eng, Pomona, NY, United States

Lee, Ving J., Monsey, NY, United States

Hlavka, Joseph J., Tuxedo Park, NY, United States

Testa, Raymond T., Cedar Grove, NJ, United States

PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)

PI US 5495018 19960227

AI US 1994-352407 19941208 (8)

RLI Division of Ser. No. US 1994-214992, filed on 21 Mar 1994, now abandoned
which is a continuation of Ser. No. US 1992-928598, filed on 13 Aug
1992, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Kestler, Kimberly J.

LREP Szatkowski, T. S.

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 7937

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compounds of the formulas ##STR1## which are
useful as intermediates for the preparation of 6-demethyl-6-
deotetracycline antibiotic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157579-07-2P 157579-18-5P 157579-22-1P

157579-23-2P 157579-26-5P 157579-28-7P

157579-29-8P 157579-30-1P 157579-31-2P

157579-36-7P 157579-37-8P

(prepn. of, as antibiotic)

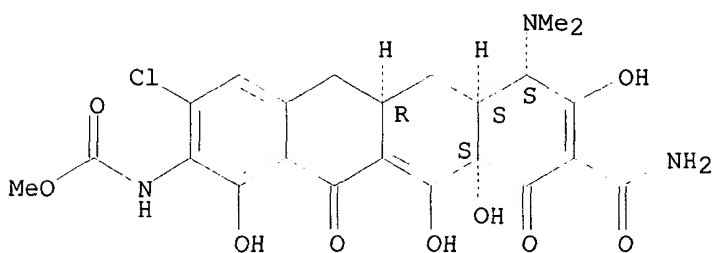
IT 157579-07-2P

(prepn. of, as antibiotic)

RN 157579-07-2 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-3-chloro-7-(dimethylamino)-
5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-
naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alp
ha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L55 ANSWER 7 OF 8 USPATFULL

AN 96:16980 USPATFULL

TI 7-substituted-9-substituted amino-6-demethyl-6-deoxytetracyclines

IN Hlavka, Joseph J., Tuxedo Park, NY, United States

Sum, Phaik-Eng, Pomona, NY, United States

Gluzman, Yakov, Upper Saddle River, NJ, United States

Lee, Ving J., Monsey, NY, United States

Ross, Adma A., Airmont, NY, United States

PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)

PI US 5494903 19960227

AI US 1994-286096 19940804 (8)

RLI Continuation of Ser. No. US 1992-926091, filed on 13 Aug 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-771576, filed on 4 Oct 1991, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Kestler, Kimberly J.

LREP Szatkowski, T. S.

CLMN Number of Claims: 98

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 7074

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is drawn to 7-substituted-9-(substituted amino)-6-demethyl-6-deoxytetracycline compounds of the formula ##STR1## wherein R, X, R.sup.5 and R.sup.6 are defined in the specification. The compounds of the invention are useful as broad spectrum antibiotics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 150231-22-4P 150231-23-5P 150251-75-5P

150251-76-6P 150251-77-7P 150251-78-8P

150521-69-0P 150521-70-3P

(prepn. of, as antibacterial)

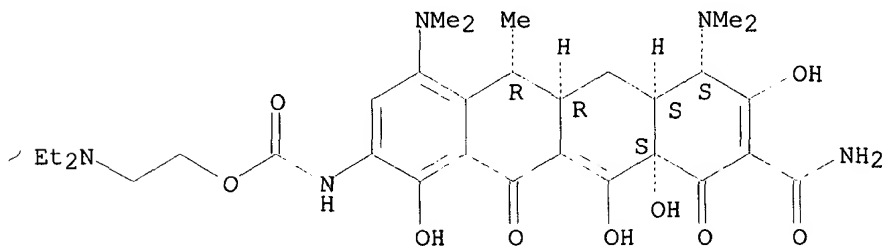
IT 150231-22-4P

(prepn. of, as antibacterial)

RN 150231-22-4 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 2-(diethylamino)ethyl ester, monohydrochloride, [5R-(5.alpha.,5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L55 ANSWER 8 OF 8 USPATFULL

AN 95:60497 USPATFULL

TI 7-(substituted)-8-(substituted)-9-substituted amino)-6-demethyl-6-deoxytetracyclines

IN Sum, Phaik-Eng, Pomona, NY, United States

Lee, Ving J., Monsey, NY, United States
 Hlavka, Joseph J., Tuxedo Park, NY, United States
 Testa, Raymond T., Cedar Grove, NJ, United States
 PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
 PI US 5430162 19950704
 AI US 1994-214992 19940321 (8)
 DCD 20120530
 RLI Continuation of Ser. No. US 1992-928598, filed on 13 Aug 1992, now
 abandoned
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Richter, Johann; Assistant Examiner: Kestler, Kimberly
 J.
 LREP Szatkowski, T. S.
 CLMN Number of Claims: 4
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 6553
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention provides compounds of formula ##STR1## wherein X, R and
 R.sup.1 are defined in the specification. These compounds are useful as
 antibiotic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

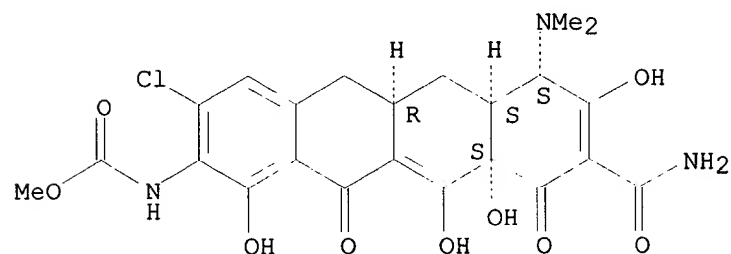
IT 157579-07-2P 157579-18-5P 157579-22-1P
 157579-23-2P 157579-26-5P 157579-28-7P
 157579-29-8P 157579-30-1P 157579-31-2P
 157579-36-7P 157579-37-8P
 (prepn. of, as antibiotic)

IT 157579-07-2P
 (prepn. of, as antibiotic)

RN 157579-07-2 USPATFULL

CN Carbamic acid, [9-(aminocarbonyl)-3-chloro-7-(dimethylamino)-
 5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-
 naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alp
 ha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:13:06 ON 11 FEB 2002

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FILE COVERS 1907 - 8 Feb 2002 VOL 136 ISS 7
FILE LAST UPDATED: 30 Jan 2002 (20020130/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> d l54 bib abs hitrn fhitr tot

L54 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:327 HCAPLUS

DN 126:31223

TI Preparation of novel tetracycline derivatives

IN Vu, Chi Bao

PA Pfizer, Inc., USA; Vu, Chi Bao

SO PCT Int. Appl., 96 pp.

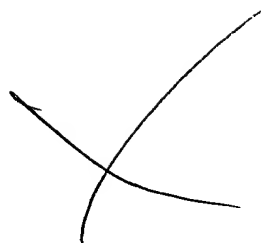
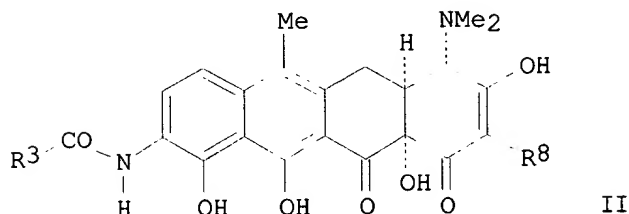
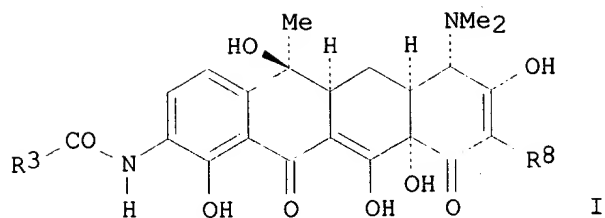
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9634852	A1	19961107	WO 1996-IB335	19960417
	W: AU, CA, JP, MX, NZ, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2219277	AA	19961107	CA 1996-2219277	19960417
	AU 9651186	A1	19961121	AU 1996-51186	19960417
	AU 693013	B2	19980618		
	EP 823893	A1	19980218	EP 1996-907639	19960417
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	JP 11504916	T2	19990511	JP 1996-533149	19960417
	US 6165999	A	20001226	US 1998-945775	19980223
PRAI	US 1995-433102	A	19950503		
	WO 1996-IB335	W	19960417		
OS	MARPAT 126:31223				
GI					



AB Novel tetracycline derivs. I and II (R3 = MeS, alkoxy, amino, substd. to form guanidino, amido, carboxamido; R8 = carboxamido) were prepd. as antibiotics for tetracycline resistant bacteria. Thus, 9-aminoanhydrotetracycline was acetylated with BrCH₂COBr to form II (R3 = BrCH₂CO, R8 = CONH₂).

IT **184593-35-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of antibacterial tetracycline derivs.)

IT **184593-34-8P 184593-37-1P 184593-41-7P**

184593-66-6P 184593-69-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of antibacterial tetracycline derivs.)

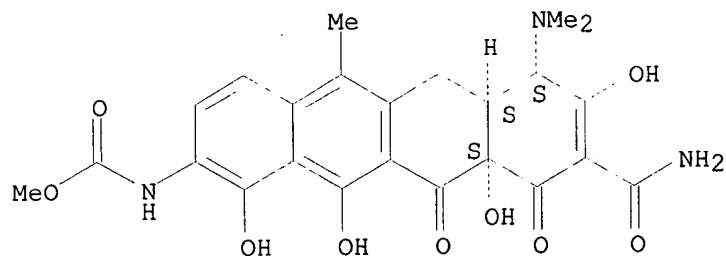
IT **184593-35-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of antibacterial tetracycline derivs.)

RN 184593-35-9 HCAPLUS

CN Carbamic acid, [9-(aminocarbonyl)-7-(dimethylamino)-6,6a,7,10,10a,11-hexahydro-1,8,10a,12-tetrahydroxy-5-methyl-10,11-dioxo-2-naphthacenyl]-, methyl ester, [6aS-(6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:55081 HCAPLUS

DN 122:188050

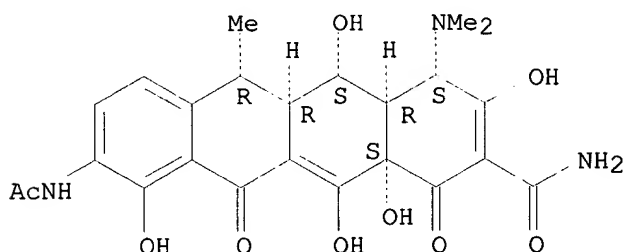
TI "Glycylcyclines". 3. 9-Aminodoxycyclinecarboxamides

AU Barden, Timothy C.; Buckwalter, Brian L.; Testa, Raymond T.; Petersen, Peter J.; Lee, Ving J.

CS Agricultural Research Division, American Cyanamid Company, Princeton, NJ,

08543-0400, USA
 SO J. Med. Chem. (1994), 37(20), 3205-11
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 AB A series of 9-(acylamino)doxycycline derivs. has been prepd. These analogs exhibit good activity against both tetracycline-sensitive and tetracycline-resistant Gram-pos. (Staphylococcus aureus) and Gram-neg. (Escherichia coli) bacteria that are encoded with the efflux and ribosomal resistance gene factors. N,N-Dialkylglycylamido derivs. possessed the highest activity. Replacement of glycine moiety with other amino acids did not further enhance the activity.
 IT **161452-37-5P 161452-40-0P**
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and bactericidal activity of acylaminodoxycyclines)
 IT **161452-37-5P**
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. and bactericidal activity of acylaminodoxycyclines)
 RN 161452-37-5 HCAPLUS
 CN 2-Naphthacenecarboxamide, 9-(acetylamino)-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, (4S,4aR,5S,5aR,6R,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

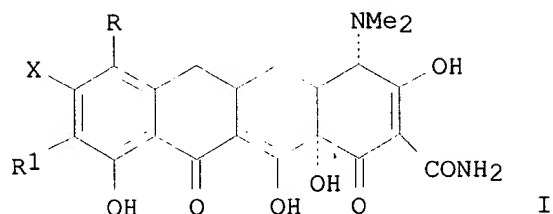


L54 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2002 ACS
 AN 1994:579403 HCAPLUS
 DN 121:179403
 TI Preparation of 7-(substituted)-8-(substituted)-9-(substituted amino)-6-demethyl-6-deoxytetracyclines as antibiotic agents
 IN Sum, Phaik Eng; Lee, Ving J.; Hlavka, Joseph J.; Testa, Raymond T.
 PA American Cyanamid Co., USA
 SO Eur. Pat. Appl., 181 pp.
 CODEN: EPXXDW

DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 582810	A1	19940216	EP 1993-109850	19930621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CZ 289195	B6	20011114	CZ 1993-1575	19930804
CA 2103861	AA	19940214	CA 1993-2103861	19930811
JP 06228072	A2	19940816	JP 1993-217927	19930811
NO 9302872	A	19940214	NO 1993-2872	19930812
AU 9344601	A1	19940217	AU 1993-44601	19930812
AU 674524	B2	19970102		
ZA 9305892	A	19940310	ZA 1993-5892	19930812
HU 64945	A2	19940328	HU 1993-2333	19930812
HU 213269	B	19970428		
IL 106677	A1	19980615	IL 1993-106677	19930812
PL 174022	B1	19980630	PL 1993-300066	19930812

PL 174127	B1	19980630	PL 1993-318908	19930812
PL 174230	B1	19980731	PL 1993-316767	19930812
IL 119750	A1	19980924	IL 1993-119750	19930812
IL 119751	A1	19980924	IL 1993-119751	19930812
PL 175487	B1	19990129	PL 1993-316768	19930812
RU 2127255	C1	19990310	RU 1993-48636	19930812
CN 1090267	A	19940803	CN 1993-109819	19930813
CN 1048719	B	20000126		
US 5430162	A	19950704	US 1994-214992	19940321
US 5495018	A	19960227	US 1994-352407	19941208
US 5886175	A	19990323	US 1994-352310	19941208
US 5512553	A	19960430	US 1995-454966	19950531
PRAI US 1992-928598	A	19920813		
IL 1993-106677	A3	19930812		
US 1994-214992	B3	19940321		
OS MARPAT 121:179403				
GI				



AB The title compds., e.g., I [X = halo, trifluoromethanesulfonyloxy; R, R1 = H, nitro, amino, etc.; further details on R and R1 are given], are prepd. [7S-(7.alpha.,10a.alpha.)]-[9-(Aminocarbonyl)-3-chloro-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]carbamic acid Me ester (II) was prepd. from 9-azido-6-demethyl-6-deoxytetracycline hydrochloride. II in vitro showed MICs of 0.06 and 4 .mu.g/mL against Staphylococcus aureus UBMS 90-3 and Staphylococcus aureus IVES 2943 (meth. resistant), resp. The title compds. exhibit antibacterial activity against a wide spectrum of organisms including organisms which are resistant to tetracyclines.

IT **157579-07-2P 157579-18-5P 157579-22-1P**
157579-23-2P 157579-26-5P 157579-28-7P
157579-29-8P 157579-30-1P 157579-31-2P
157579-36-7P 157579-37-8P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of, as antibiotic)

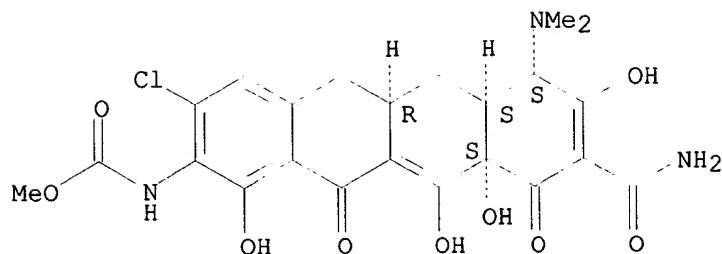
IT **157579-07-2P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of, as antibiotic)

RN 157579-07-2 HCAPLUS

CN Carbamic acid, [9-(aminocarbonyl)-3-chloro-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L54 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1993:603237 HCAPLUS

DN 119:203237

TI Preparation of 7-substituted-9-substituted amino-6-demethyl-6-deoxytetracyclines

IN Hlavka, Joseph J.; Sum, Phaik Eng; Gluzman, Yakov; Lee, Ving J.; Ross, Adma A.

PA American Cyanamid Co., USA

SO Eur. Pat. Appl., 209 pp.

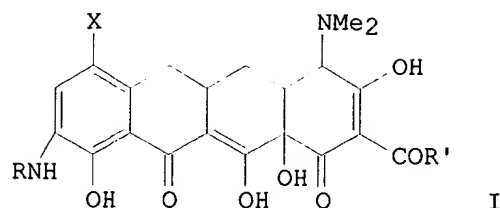
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 536515	A1	19930414	EP 1992-114281	19920821
	EP 536515	B1	20011219		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	AT 211128	E	20020115	AT 1992-114281	19920821
	HU 63145	A2	19930728	HU 1992-3110	19920930
	HU 219973	B	20011028		
	CZ 284159	B6	19980812	CZ 1992-2984	19920930
	CZ 284209	B6	19980916	CZ 1997-3093	19920930
	SK 280837	B6	20000814	SK 1992-2984	19920930
	IL 103320	A1	19981206	IL 1992-103320	19921001
	IL 119590	A1	19990312	IL 1992-119590	19921001
	CA 2079692	AA	19930405	CA 1992-2079692	19921002
	NO 9203857	A	19930405	NO 1992-3857	19921002
	AU 9226183	A1	19930408	AU 1992-26183	19921002
	AU 654049	B2	19941020		
	ZA 9207607	A	19930413	ZA 1992-7607	19921002
	PL 172282	B1	19970829	PL 1992-310717	19921002
	PL 173311	B1	19980227	PL 1992-296143	19921002
	PL 175957	B1	19990331	PL 1992-310718	19921002
	PL 176333	B1	19990531	PL 1992-310719	19921002
	CN 1072172	A	19930519	CN 1992-112130	19921003
	CN 1048240	B	20000112		
	JP 05255219	A2	19931005	JP 1992-288114	19921005
	JP 3186863	B2	20010711		
	US 5494903	A	19960227	US 1994-286096	19940804
	US 5529990	A	19960625	US 1995-455446	19950531
	US 5530117	A	19960625	US 1995-455923	19950531
PRAI	US 1991-771576	A	19911004		
	US 1992-926091	B1	19920813		
	IL 1992-103320	A3	19921001		
	US 1994-286096	A3	19940804		
OS	MARPAT 119:203237				
GI					



AB Title compds. I (X = H₂N, R₁R₂N wherein R₁ = H, alkyl, R₂ = Me, Et, Pr, Me₂CH, Bu, MeCH₂CHMe, Me₂CHCH₂, Me₃C, halo; R = R₄(CH₂)₄nCO, R₄(CH₂)_nSO₂ wherein R₄ = H, C₁-4 alkyl-, cyclopropyl-, cyclobutyl-, benzyl-, phenylamino, dimethyl-, diethylamino, piperidyl, morpholinyl, (substituted) cycloalkyl, (substituted) C₆-10 aryl, C₇-9 aralkyl, heterocyclyl, etc., n = 0-4; R' = H₂N, R₅R₆NCH₂NH wherein R₅, R₆ = H, C₁-3 alkyl, C₆-10 aryl, C₇-9 aralkyl, 5-6-membered heterocyclyl comprising N, O, S, Se) and a salt thereof, having activity against and including organisms resistant to tetracyclines, are prepd. To [4S-(4.alpha.,12a.alpha.)]-4,7-bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-2,3,10,12,12a-tetrahydroxy-1,11-dioxo-2-naphthacenecarboxamide-HCl in H₂SO₄ was added NaNO₃ to give the 9-nitro deriv. sulfate which in MeOCH₂CH₂OH was treated with Pd/C and H₂SO₄ to give the 9-amino deriv. sulfate which was reacted with NaOAc and HCO₂H to give [4S-(4.alpha.,12a.alpha.)]-I (X = H₂NCO, R = HCO, R' = H₂N) (II). II showed in vivo activity against resistant organisms. A large no. of I was prepd. and evaluated.

IT 150231-22-4P 150231-23-5P 150251-75-5P
150251-76-6P 150251-77-7P 150251-78-8P
150521-69-0P 150521-70-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antibacterial)

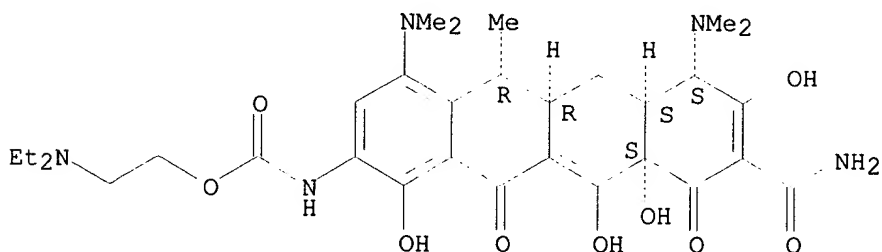
IT 150231-22-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antibacterial)

RN 150231-22-4 HCAPLUS

CN Carbamic acid, [9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 2-(diethylamino)ethyl ester, monohydrochloride, [5R-(5.alpha.,5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



HCl

TI Antibacterial alkylamino tetracyclines
 IN Zambrano, Ronald T.
 PA American Cyanamid Co.
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3483251	A	19691209	US 1967-620294	19670303
	GB 1206439	A	19700923	GB 1967-1206439	19671215
	FR 1550023	A	19681213	FR 1968-1550023	19680105
	BE 709112	A	19680709	BE 1968-709112	19680109
	NL 6800362	A	19680711	NL 1968-362	19680110
	NL 162066	B	19791115		
	NL 162066	C	19800415		
	DE 1643767	B2	19800417	DE 1968-A57905	19680110
	DE 1643767	C3	19810108		
	ES 352203	A1	19700201	ES 1968-352203	19680330
	JP 52015594	B4	19770430	JP 1972-79544	19720810
PRAI	US 1967-608264		19670110		
	US 1967-620294		19670303		

AB The title compds. (I) are reduced with H at atm. or superatm. pressure in the presence of a carbonyl compd. and a metal catalyst to produce biol. active 7-[mono(lower alkyl)amino]tetracyclines and 7-[di(lower alkyl)amino]tetracyclines. For example, 1 g 6-demethyltetracycline was dissolved in 9.6 ml THF and 10.4 ml methanesulfonic acid at -10.degree.. After warming the mixt. to 0.degree. a soln. of 0.86 g dibenzyl azodicarboxylate in 0.5 ml THF was added and the mixt. stirred for 2 hr at 0.degree. to yield 7-[1,2-bis(carbobenzyloxy)hydrazino]-6-demethyltetracycline (II). A soln. of 1 millimole II in 90 ml 2-methoxyethanol, 1.5 ml 40% aq. H₂CO and 300 mg 10% Pd-C was hydrogenated at room temp. to give 7-dimethylamino-6-demethyltetracycline. Similarly 7-[1,2-bis(carbobenzyloxy)hydrazino]-6-demethyl-6-deoxytetracycline and 7-dimethylamino-.alpha.-6-deoxy-5-hydroxytetracycline were prepd. Other starting tetracyclines prepd. were 7-[1,2-bis(carbobenzyloxy)hydrazino]-6-demethyl-6-deoxytetracycline and 7-[1,2-bis(carbobenzyloxy)hydrazino]-11a-chloro-6-demethyl-6-deoxytetracycline. I are biol. active and possess broad spectrum antibacterial activity.

IT 22229-68-1P 22229-72-7P

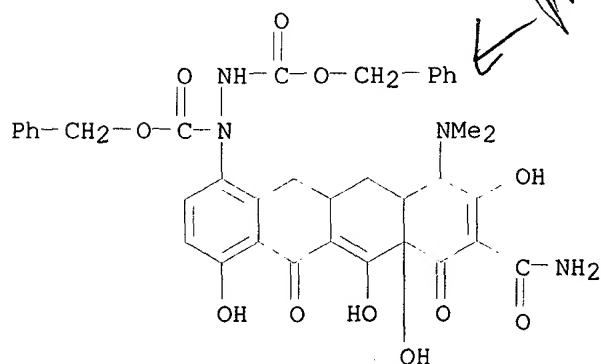
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 22229-68-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 22229-68-1 HCAPLUS

CN Bicarbamic acid, [8-carbamoyl-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, dibenzyl ester (8CI) (CA INDEX NAME)



L54 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2002 ACS
 AN 1969:37557 HCAPLUS
 DN 70:37557
 TI 7-[1,2-Bis(substituted)hydrazino]tetracyclines
 IN Zambrano, Ronald T.
 PA American Cyanamid Co.
 SO U.S., 5 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3403179	A	19680924	US 1967-608264	19670110
	GB 1206439	A	19700923	GB 1967-1206439	19671215
	FR 1550023	A	19681213	FR 1968-1550023	19680105
	BE 709112	A	19680709	BE 1968-709112	19680109
	NL 6800362	A	19680711	NL 1968-362	19680110
	NL 162066	B	19791115		
	NL 162066	C	19800415		
	DE 1643767	B2	19800417	DE 1968-A57905	19680110
	DE 1643767	C3	19810108		
	ES 352203	A1	19700201	ES 1968-352203	19680330
	JP 52015594	B4	19770430	JP 1972-79544	19720810
PRAI	US 1967-608264		19670110		
	US 1967-620294		19670303		

GI For diagram(s), see printed CA Issue.

AB 6-Demethyl-6-deoxytetracycline (3.84 g.) was dissolved in a mixt. of 7.7 cc. tetrahydrofuran and 69 cc. MeSO₃H, and the soln. cooled to 0-5.degree.. A soln. of 3.32 g. PhCH₂O₂CN:NCO₂CH₂Ph in 3.1 cc. tetrahydrofuran was added dropwise, and the mixt. stirred 10 min. to give 5.55 g. I (R = PhCH₂O₂C) (II). II (7 g.) was reduced with 3.5 g 50% Pd-C and 136 ml. N H₂SO₄-MeOH for 4 hrs. at 20 psi. H to give 7-amino-6-demethyl-6-deoxytetracycline. Redn. in the presence of H₂CO gave the 7-dimethylamino analog. Also prepd. were I (R = EtO₂C) and I (R = H₂NCO). Also prepd. were 7-(1,2-dicarbethoxyhydrazino)-.beta.-6-deoxy-5-hydroxytetracycline, 7-(1,2-dicarbethoxyhydrazino)-.beta.-6-deoxytetracycline, and 7-[1,2-bis(carbobenzyloxy)hydrazino]-11a-chloro-6-demethyl-6-deoxytetracycline. Spectral data are given for many of the compds.

IT **22229-68-1P 22229-71-6P 22229-72-7P**
22229-73-8P 22351-64-0P 22351-65-1P

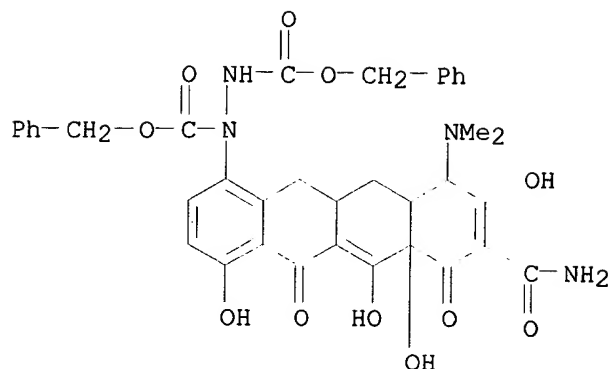
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT **22229-68-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 22229-68-1 HCAPLUS

CN Bicarbamid acid, [8-carbamoyl-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, dibenzyl ester (8CI) (CA INDEX NAME)



=> d 153 bib abs hitrn fhitstr tot

L53 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:51420 HCAPLUS

DN 136:102232

TI Preparation of 7-substituted tetracycline derivatives for pharmaceutical use as antibacterial agents

IN **Nelson, Mark L.; Frechette, Roger;** Viski, Peter;
Ismail, Mohamed; Bowser, Todd; Bhatia, Beena;
 Messersmith, David; McIntyre, Laura; Koza, Darrell; Rennie, Glen; Sheahan, Paul; Hawkins, Paul; Verma, Atul; Warchol, Tad; Bandarage, Upul

PA Trustees of **Tufts College, USA; Paratek Pharmaceuticals, Inc.**

SO PCT Int. Appl., 97 pp.

CODEN: PIXXD2

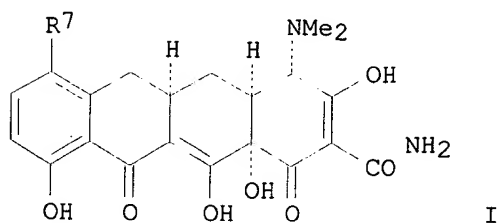
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-216760	P	20000707		
	US 2001-275576	P	20010313		

GI



AB 7-Substituted tetracycline derivs., such as I [R7 = NO2, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl,

alkylamino, arylalkyl, amino, arylalkenyl, arylalkynyl, aminoalkyl, etc.], were prepd. for therapeutic use as antibacterial agents. Thus, 7-phenylsancycline I (R7 = Ph) was prepd. in 42% yield by arom. coupling reaction of 7-iodosancycline I (R7 = iodo) with PhB(OH)₂ using Pd(OAc)₂ and Na₂CO₃ in MeOH under an argon atm. at r.t. for 2 h. The prepd. tetracycline derivs. were tested for antibacterial activity against Escherichia coli, Enterococcus hirae, and Staphylococcus aureus.

IT 365277-44-7P 365277-45-8P 389625-03-0P
389625-12-1P 389625-13-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 7-substituted tetracycline derivs. for pharmaceutical use as antibacterial agents)

IT 365277-44-7P

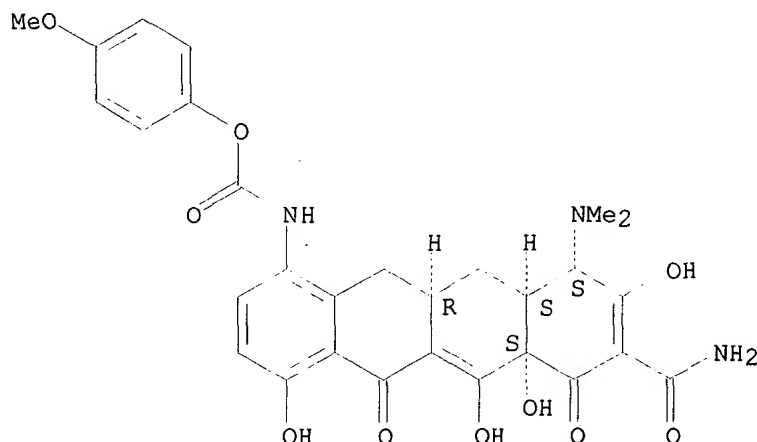
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 7-substituted tetracycline derivs. for pharmaceutical use as antibacterial agents)

RN 365277-44-7 HCAPLUS

CN Carbamic acid, [(6aS,10S,10aS,11aR)-8-(aminocarbonyl)-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, 4-methoxyphenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L53 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:51419 HCAPLUS

DN 136:102231

TI Preparation of 9-substituted minocycline derivatives for pharmaceutical use as antibacterial agents

IN Nelson, Mark L.; Frechette, Roger; Viski, Peter; Ismail, Mohamed; Bowser, Todd; Dumornay, Jimmy; Rennie, Glen; Liu, Gui; Koza, Darrell; Sheahan, Paul; Stapleton, Karen; Hawkins, Paul; Bhatia, Beena; Verma, Atul; McIntyre, Laura; Warchol, Tad
PA Trustees of Tufts College, USA; Paratek Pharmaceuticals, Inc.

SO PCT Int. Appl., 57 pp.
CODEN: PIXXD2

DT Patent

LA English

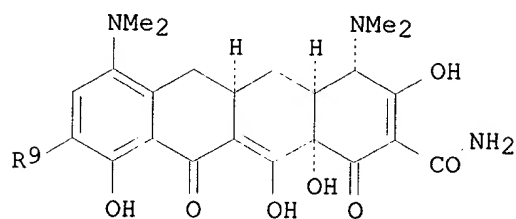
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004406	A2	20020117	WO 2001-US20721	20010629
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-216659 P 20000707
 US 2001-275621 P 20010313

GI



AB 9-Substituted minocycline derivs., such as I [R9 = NO2, N:S, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, arylalkyl, amino, arylalkenyl, arylalkynyl, aminoalkyl, etc.], were prepd. for therapeutic use as antibacterial agents. Thus, minocycline deriv. I (R9 = CH2NHCONHC6H4-4-OCF3) was prepd. in 37% yield by reaction of the trihydrochloride salt of 9-(aminomethyl)minocycline I (R9 = CH2NH2) and F3CO-4-C6H4NCO using Et3N in DMF at 25.degree. for 2 h. The prepd. minocycline derivs. were tested for antibacterial activity against Escherichia coli, Enterococcus hirae, and Staphylococcus aureus.

IT 365277-07-2P 365277-28-7P 365277-29-8P
 365277-36-7P 365277-38-9P 365277-46-9P
 365277-47-0P 365277-48-1P 365277-49-2P
 365277-50-5P 365277-51-6P 365277-52-7P
 365277-53-8P 365277-54-9P 365277-55-0P
 365277-56-1P 365277-57-2P 365277-58-3P
 365277-59-4P 365277-60-7P 365277-61-8P
 365277-62-9P 365277-63-0P 365277-64-1P
 365277-65-2P 389139-81-5P 389139-82-6P
 389139-83-7P 389139-86-0P 389139-92-8P
 389139-93-9P 389139-94-0P 389139-95-1P
 389139-96-2P 389139-97-3P 389139-98-4P
 389139-99-5P 389140-00-5P 389140-01-6P
 389140-02-7P 389140-03-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 9-substituted minocycline derivs. for pharmaceutical use as antibacterial agents)

IT 365277-07-2P

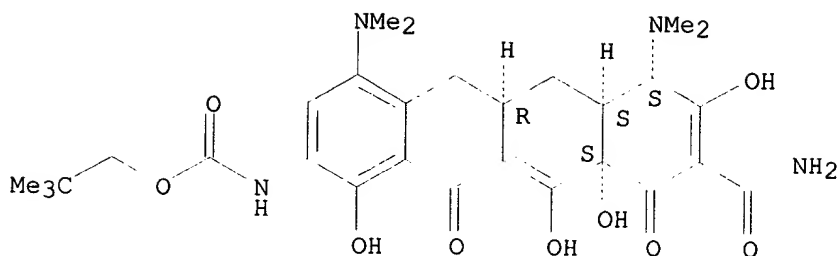
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 9-substituted minocycline derivs. for pharmaceutical use as antibacterial agents)

RN 365277-07-2 HCAPLUS

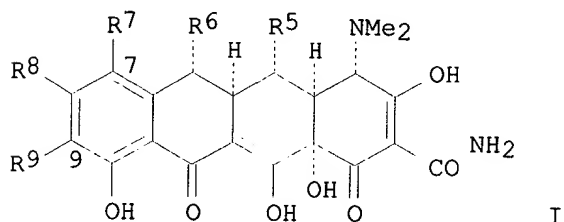
CN Carbamic acid, [(5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L53 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:747739 HCAPLUS
DN 135:288637
TI Preparation of 7-and 9-carbamate, urea, thiourea, thiocarbamate, and
heteroaryl-amino substituted tetracycline derivatives for pharmaceutical
use as antibiotics
IN Nelson, Mark L.; Levy, Stuart B.; Prechette,
Roger; Bowser, Todd E.; Ismail, Mohamed Y.
PA Trustees of Tufts College, USA
SO PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001074761	A1	20011011	WO 2001-US10342	20010331
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2000-193879	P	20000331		
	US 2000-193972	P	20000331		
OS	MARPAT 135:288637				
GI					



AB Tetracycline derivs., such as I [R5 = H, OH, acyloxy, etc.; R6 = H, Me, alkyl, etc.; R7, R9 = arylamino, urea, thiourea, carbamate, thiocarbamate, etc.; R8 = H, alkyl, alkenyl, alkynyl, aryl, alkoxy, alkylthio, etc.], were prepd. for pharmaceutical use as antibiotics. Thus, doxycycline deriv. I (R5 = OH, R6 = Me, R7 = R8 = H, R9 = 1-naphthylaminocarbonylamino) was prepd. by nitration of doxycycline with potassium nitrate, Pd/C catalyzed hydrogenation of the nitrate to form 9-aminodoxycycline I (R5 = OH, R6 = Me, R7 = R8 = H, R9 = NH2) followed by formation of the desired urea by reaction of 9-aminodoxycycline with 1-naphthylisocyanate. The prepd. tetracycline derivs. were tested for efficacy against common bacterial strains, such as E. coli, S. aureus, E.

hirae, and E. faecalis.

IT 365277-08-3P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of 7-and 9-carbamate, urea, thiourea, thiocarbamate, and heteroaryl-amino substituted tetracycline derivs. for pharmaceutical use as antibiotics)

IT 161452-37-5P 365276-98-8P 365276-99-9P

365277-00-5P 365277-01-6P 365277-02-7P

365277-03-8P 365277-04-9P 365277-05-0P

365277-06-1P 365277-07-2P 365277-09-4P

365277-15-2P 365277-16-3P 365277-19-6P

365277-20-9P 365277-21-0P 365277-22-1P

365277-23-2P 365277-24-3P 365277-25-4P

365277-26-5P 365277-27-6P 365277-28-7P

365277-29-8P 365277-31-2P 365277-32-3P

365277-34-5P 365277-35-6P 365277-36-7P

365277-38-9P 365277-44-7P 365277-45-8P

365277-46-9P 365277-47-0P 365277-48-1P

365277-49-2P 365277-50-5P 365277-51-6P

365277-52-7P 365277-53-8P 365277-54-9P

365277-55-0P 365277-56-1P 365277-57-2P

365277-58-3P 365277-59-4P 365277-60-7P

365277-61-8P 365277-62-9P 365277-63-0P

365277-64-1P 365277-65-2P 365277-67-4P

365277-68-5P 365277-69-6P 365277-70-9P

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365277-95-8P 365277-96-9P 365277-97-0P

365278-06-4P 365278-07-5P 365278-08-6P

365278-09-7P 365278-10-0P 365278-11-1P

365278-12-2P 365278-13-3P 365278-14-4P

365278-15-5P 365280-21-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 7-and 9-carbamate, urea, thiourea, thiocarbamate, and heteroaryl-amino substituted tetracycline derivs. for pharmaceutical use as antibiotics)

IT 365277-08-3P

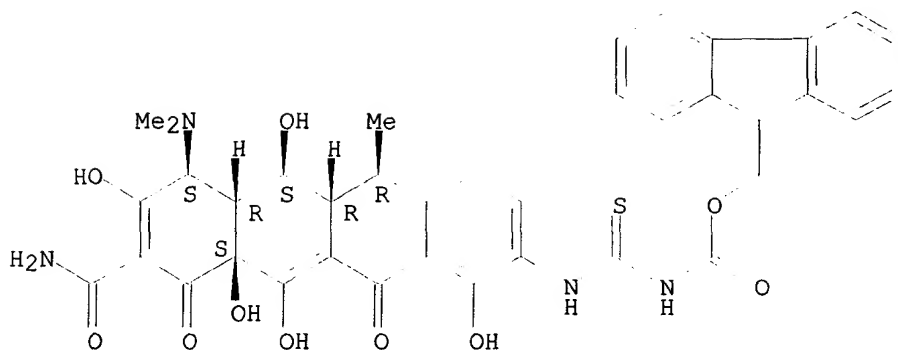
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 7-and 9-carbamate, urea, thiourea, thiocarbamate, and heteroaryl-amino substituted tetracycline derivs. for pharmaceutical use as antibiotics)

RN 365277-08-3 HCAPLUS

CN Carbamic acid, [[[(5R,5aR,6S,6aR,7S,10aS)-9-(aminocarbonyl)-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,6,8,10a,11-pentahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]amino]thioxomethyl]-, 9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:13:47 ON 11 FEB 2002

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STRUCTURE FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9

DICTIONARY FILE UPDATES: 10 FEB 2002 HIGHEST RN 391197-12-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/Caplus files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/Caplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

=> d reg tot 148

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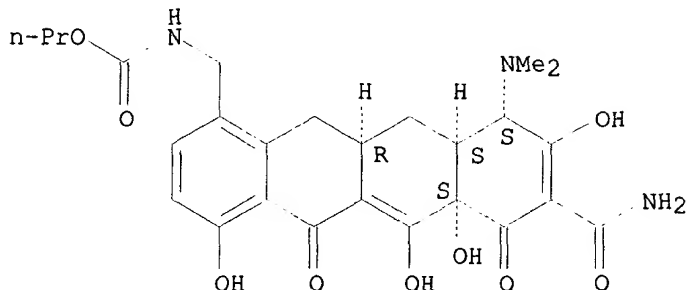
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56	RN	365277-62-9	REGISTRY
57	RN	365277-61-8	REGISTRY
58	RN	365277-60-7	REGISTRY
59	RN	365277-59-4	REGISTRY
60	RN	365277-58-3	REGISTRY
61	RN	365277-57-2	REGISTRY
62	RN	365277-56-1	REGISTRY
63	RN	365277-55-0	REGISTRY
64	RN	365277-54-9	REGISTRY
65	RN	365277-53-8	REGISTRY
66	RN	365277-52-7	REGISTRY
67	RN	365277-51-6	REGISTRY
68	RN	365277-50-5	REGISTRY
69	RN	365277-49-2	REGISTRY
70	RN	365277-48-1	REGISTRY
71	RN	365277-47-0	REGISTRY
72	RN	365277-46-9	REGISTRY
73	RN	365277-45-8	REGISTRY
74	RN	365277-44-7	REGISTRY
75	RN	365277-38-9	REGISTRY

76	RN	365277-36-7	REGISTRY
77	RN	365277-35-6	REGISTRY
78	RN	365277-34-5	REGISTRY
79	RN	365277-32-3	REGISTRY
80	RN	365277-31-2	REGISTRY
81	RN	365277-29-8	REGISTRY
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83	RN	365277-27-6	REGISTRY
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85	RN	365277-25-4	REGISTRY
86	RN	365277-24-3	REGISTRY
87	RN	365277-23-2	REGISTRY
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89	RN	365277-21-0	REGISTRY
90	RN	365277-20-9	REGISTRY
91	RN	365277-19-6	REGISTRY
92	RN	365277-16-3	REGISTRY
93	RN	365277-15-2	REGISTRY
94	RN	365277-09-4	REGISTRY
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101	RN	365277-02-7	REGISTRY
102	RN	365277-01-6	REGISTRY
103	RN	365277-00-5	REGISTRY
104	RN	365276-99-9	REGISTRY
105	RN	365276-98-8	REGISTRY
106	RN	184593-69-9	REGISTRY
107	RN	184593-66-6	REGISTRY
108	RN	184593-41-7	REGISTRY
109	RN	184593-37-1	REGISTRY
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111	RN	184593-34-8	REGISTRY
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116	RN	157579-31-2	REGISTRY
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121	RN	157579-23-2	REGISTRY
122	RN	157579-22-1	REGISTRY
123	RN	157579-18-5	REGISTRY
124	RN	157579-07-2	REGISTRY
125	RN	150521-70-3	REGISTRY
126	RN	150521-69-0	REGISTRY
127	RN	150251-78-8	REGISTRY
128	RN	150251-77-7	REGISTRY
129	RN	150251-76-6	REGISTRY
130	RN	150251-75-5	REGISTRY
131	RN	150231-23-5	REGISTRY
132	RN	150231-22-4	REGISTRY
133	RN	28268-56-6	REGISTRY
134	RN	22351-65-1	REGISTRY
135	RN	22351-64-0	REGISTRY
136	RN	22229-73-8	REGISTRY
137	RN	22229-72-7	REGISTRY
138	RN	22229-71-6	REGISTRY
139	RN	22229-68-1	REGISTRY

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134 136 139

L48 ANSWER 1 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 389625-13-2 REGISTRY
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C26 H31 N3 O9
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



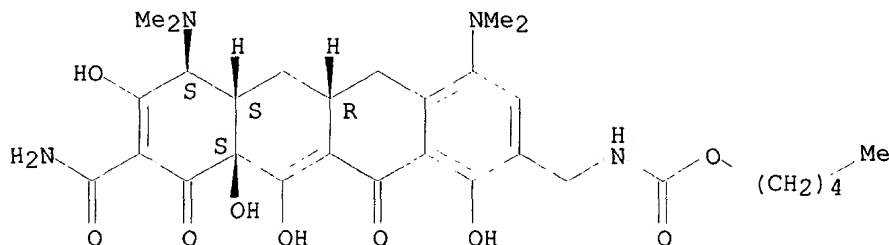
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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102232

L48 ANSWER 4 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 389140-03-8 REGISTRY
CN Carbamic acid, [[(5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]methyl]-, pentyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H40 N4 O9
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

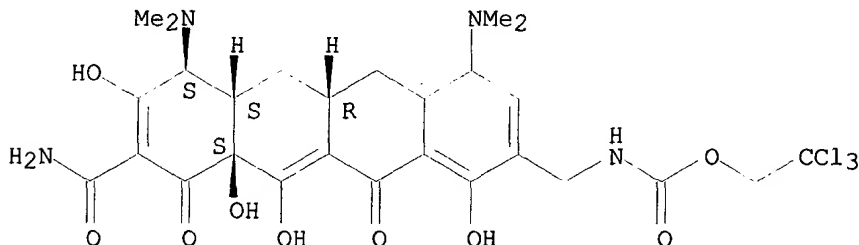
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102231

L48 ANSWER 10 OF 139 REGISTRY COPYRIGHT 2002 ACS

RN **389139-97-3** REGISTRY
 CN Carbamic acid, [[[5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]methyl]-, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF **C27 H31 Cl3 N4 O9**
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



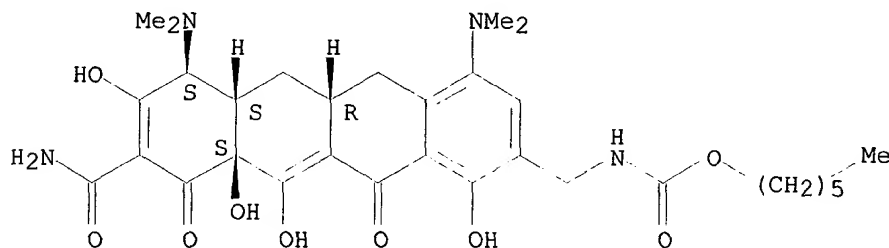
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102231

L48 ANSWER 15 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN **389139-92-8** REGISTRY
 CN Carbamic acid, [[[5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]methyl]-, hexyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF **C31 H42 N4 O9**
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

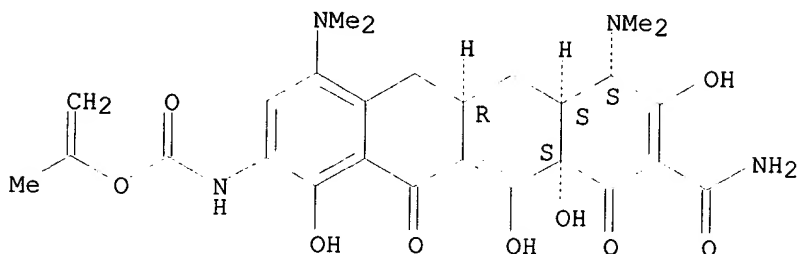
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102231

L48 ANSWER 20 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN **365280-21-3** REGISTRY
 CN Carbamic acid, [(5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-

naphthacenyl]-, 1-methylethenyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C27 H32 N4 O9
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



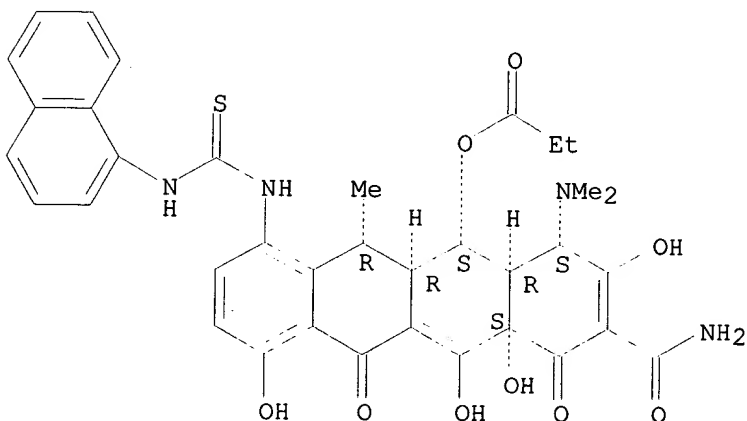
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 21 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN 365278-15-5 REGISTRY
 CN 2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-6-methyl-7-[[[(1-naphthalenylamino)thioxomethyl]amino]-1,11-dioxo-5-(1-oxopropoxy)-, (4S,4aR,5S,5aR,6R,12aS)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C36 H36 N4 O9 S
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

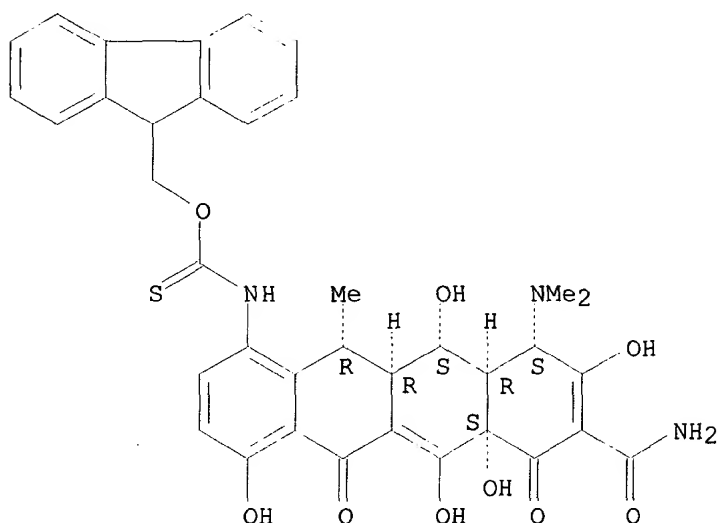
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 30 OF 139 REGISTRY COPYRIGHT 2002 ACS

RN **365278-06-4** REGISTRY
 CN Carbamothioic acid, [(6aS,10S,10aR,11S,11aR,12R)-8-(aminocarbonyl)-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9,11-pentahydroxy-12-methyl-5,7-dioxo-1-naphthacenyl]-, O-(9H-fluoren-9-ylmethyl) ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C37 H35 N3 O9 S
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



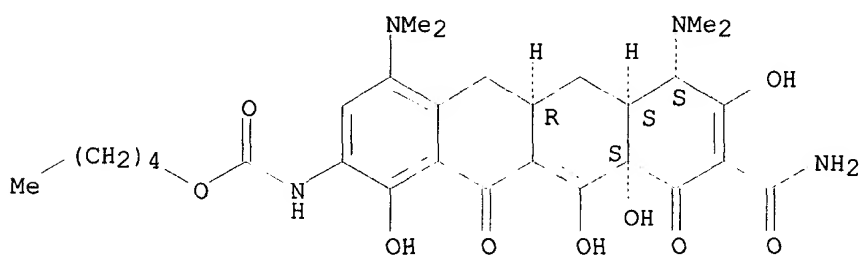
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 40 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN **365277-87-8** REGISTRY
 CN Carbamic acid, [(5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, pentyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C29 H38 N4 O9
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



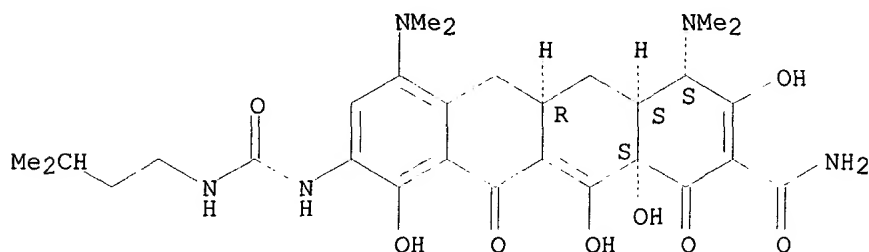
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 50 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN **365277-69-6** REGISTRY
CN 2-Naphthacenecarboxamide, 4,7-bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-9-[[[(3-methylbutyl)amino]carbonyl]amino]-1,11-dioxo-, (4S,4aS,5aR,12aS)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H39 N5 O8
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



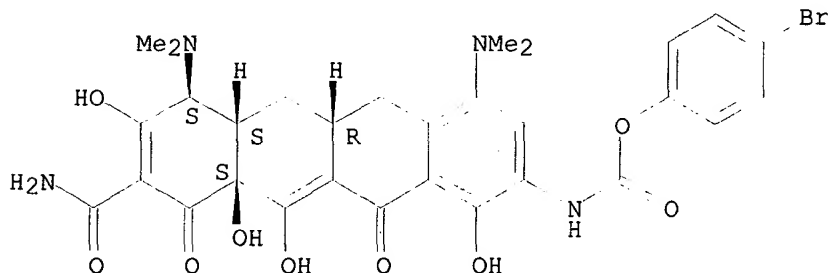
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 60 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN **365277-58-3** REGISTRY
CN Carbamic acid, [(5aR,6aS,7S,10aS)-9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, 4-bromophenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H31 Br N4 O9
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

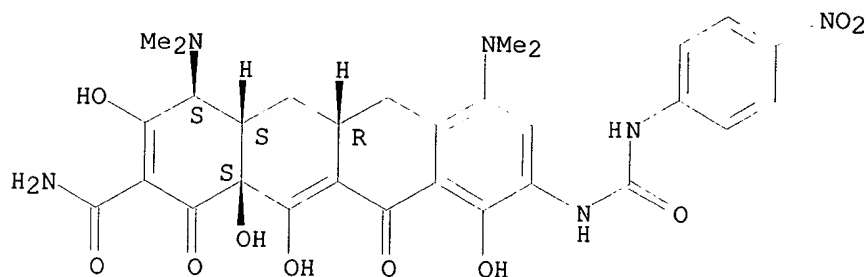
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:102231

REFERENCE 2: 135:288637

L48 ANSWER 70 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN **365277-48-1** REGISTRY
CN 2-Naphthacenecarboxamide, 4,7-bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-9-[[[(4-nitrophenyl)amino]carbonyl]amino]-1,11-dioxo-, (4S,4aS,5aR,12aS)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C30 H32 N6 O10
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

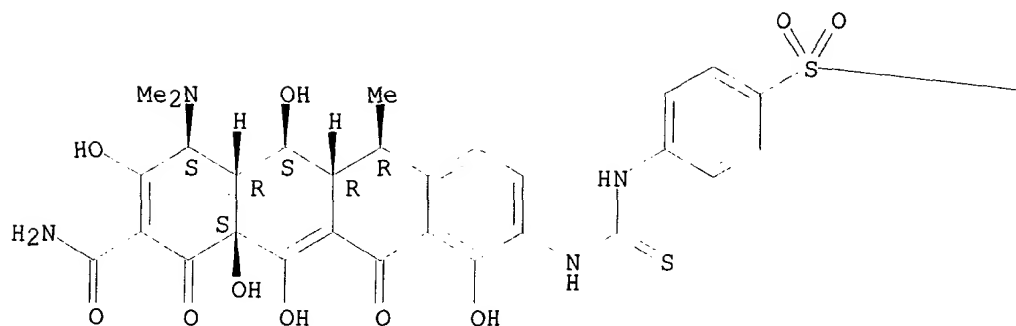
REFERENCE 1: 136:102231

REFERENCE 2: 135:288637

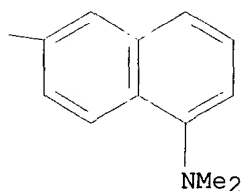
L48 ANSWER 80 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN **365277-31-2** REGISTRY
CN 2-Naphthacenecarboxamide, 4-(dimethylamino)-9-[[[[4-[[5-(dimethylamino)-2-naphthalenyl]sulfonyl]phenyl]amino]thioxomethyl]amino]-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, (4S,4aR,5S,5aR,6R,12aS)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H41 N5 O10 S2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 90 OF 139 REGISTRY COPYRIGHT 2002 ACS

RN 365277-20-9 REGISTRY

CN 2-Naphthacenecarboxamide, 9-[[[(4-chlorophenyl)sulfonyl]amino]carbonyl]amino]-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, (4S,4aR,5S,5aR,6R,12aS)- (9CI) (CA INDEX NAME)

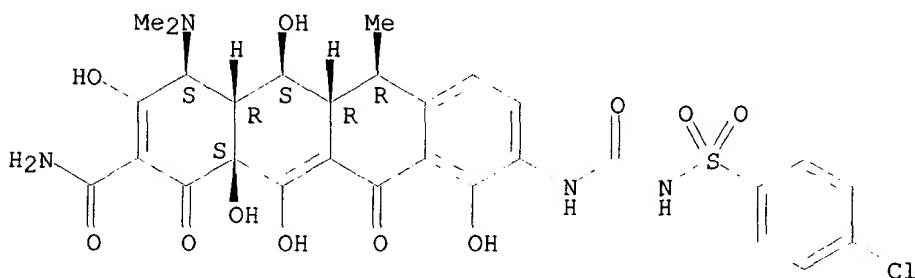
FS STEREOSEARCH

MF C29 H29 Cl N4 O11 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

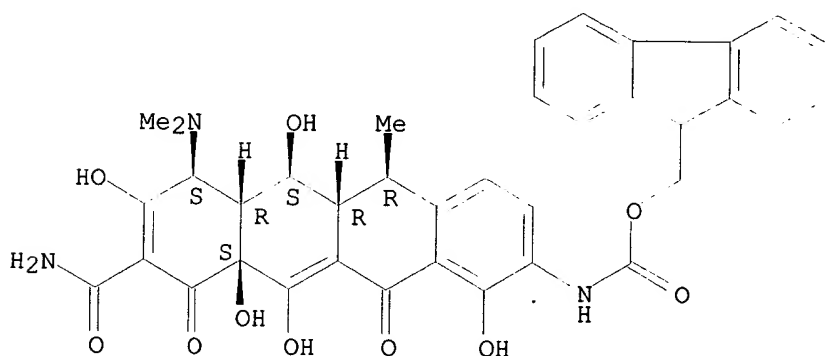
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 100 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN 365277-03-8 REGISTRY
 CN Carbamic acid, [(5R,5aR,6S,6aR,7S,10aS)-9-(aminocarbonyl)-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,6,8,10a,11-pentahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 9H-fluoren-9-ylmethyl ester (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C37 H35 N3 O10
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



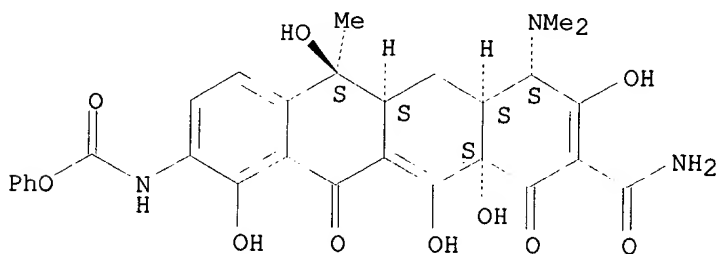
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:288637

L48 ANSWER 106 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN 184593-69-9 REGISTRY
 CN Carbamic acid, [9-(aminocarbonyl)-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,5,8,10a,11-pentahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, phenyl ester, [5S-(5.alpha.,5a.beta.,6a.beta.,7.beta.,10a.beta.)]- (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C29 H29 N3 O10
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



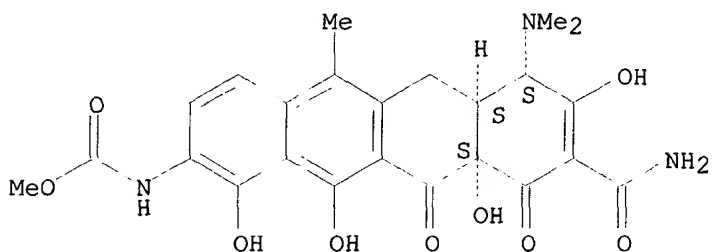
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:31223

L48 ANSWER 110 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 184593-35-9 REGISTRY
CN Carbamic acid, [9-(aminocarbonyl)-7-(dimethylamino)-6,6a,7,10,10a,11-hexahydro-1,8,10a,12-tetrahydroxy-5-methyl-10,11-dioxo-2-naphthacenyl]-, methyl ester, [6aS-(6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H25 N3 O9
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



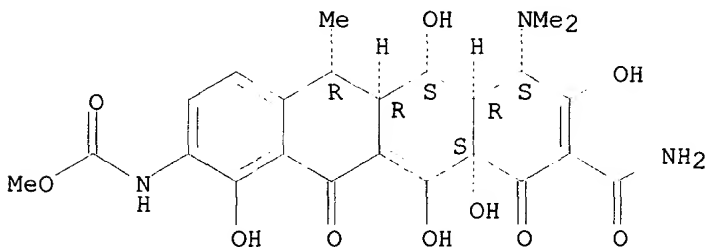
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:31223

L48 ANSWER 112 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 161452-40-0 REGISTRY
CN Carbamic acid, [9-(aminocarbonyl)-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,6,8,10a,11-pentahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, methyl ester, [5R-(5.alpha.,5a.alpha.,6.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H27 N3 O10
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

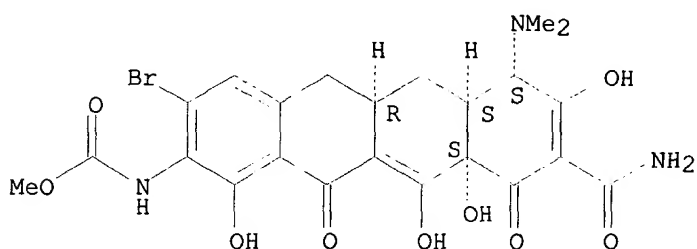
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:188050

L48 ANSWER 114 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN 157579-37-8 REGISTRY
 CN Carbamic acid, [9-(aminocarbonyl)-3-bromo-7-(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-10,12-dioxo-2-naphthacenyl]-, methyl ester, [5aR-(5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H24 Br N3 O9
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



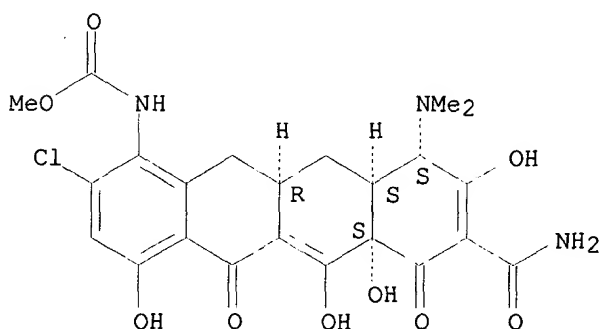
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1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:179403

L48 ANSWER 120 OF 139 REGISTRY COPYRIGHT 2002 ACS
 RN 157579-26-5 REGISTRY
 CN Carbamic acid, [8-(aminocarbonyl)-2-chloro-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, methyl ester, [6aS-(6a.alpha.,10.alpha.,10a.alpha.,11a.alpha.)]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H24 Cl N3 O9
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

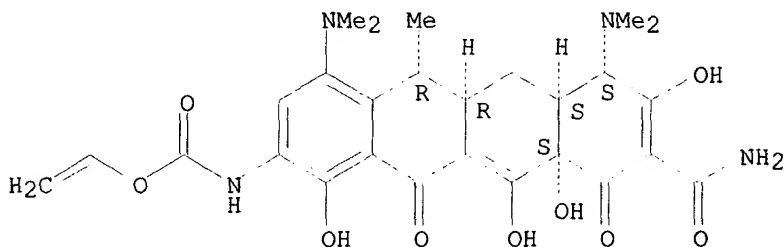
REFERENCE 1: 121:179403

L48 ANSWER 125 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 150521-70-3 REGISTRY
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FS STEREOSEARCH
MF C27 H32 N4 O9 . x H2 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

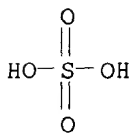
CRN 150251-77-7
CMF C27 H32 N4 O9

Absolute stereochemistry.



CM 2

CRN 7664-93-9
CMF H2 O4 S

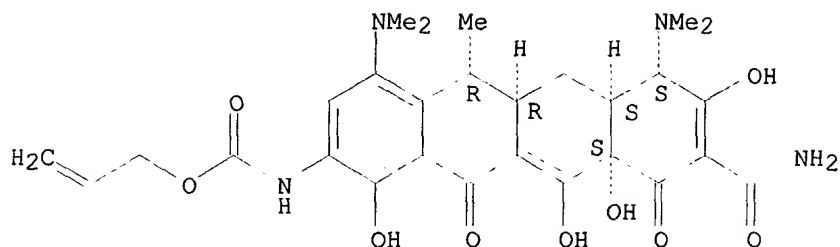


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:203237

L48 ANSWER 131 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 150231-23-5 REGISTRY
CN Carbamic acid, [9-(aminocarbonyl)-4,7-bis(dimethylamino)-5,5a,6,6a,7,10,10a,12-octahydro-1,8,10a,11-tetrahydroxy-5-methyl-10,12-dioxo-2-naphthacenyl]-, 2-propenyl ester, monohydrochloride, [5R-(5.alpha.,5a.alpha.,6a.alpha.,7.alpha.,10a.alpha.)]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H34 N4 O9 . Cl H
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (150251-78-8)

Absolute stereochemistry.

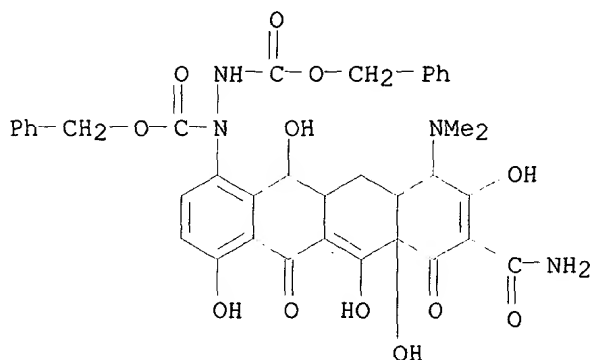


● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

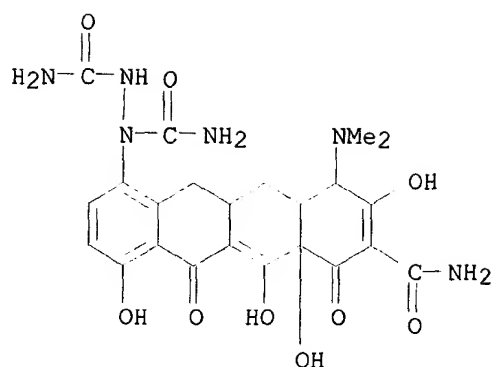
REFERENCE 1: 119:203237

L48 ANSWER 133 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 28268-56-6 REGISTRY
CN 1,2-Hydrazinedicarboxylic acid, 1-[8-(aminocarbonyl)-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9,12-pentahydroxy-5,7-dioxo-1-naphthacenyl]-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)
MF C37 H36 N4 O12



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L48 ANSWER 134 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 22351-65-1 REGISTRY
CN Biurea, 3-[8-carbamoyl-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]- (8CI) (CA INDEX NAME)
MF C23 H26 N6 O9
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

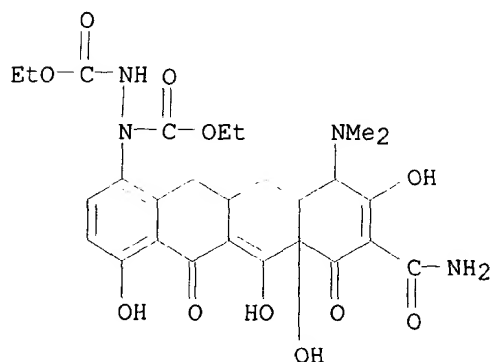


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 70:37557

L48 ANSWER 136 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 22229-73-8 REGISTRY
CN Bicarbamic acid, [8-carbamoyl-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, diethyl ester (8CI) (CA INDEX NAME)
MF C27 H32 N4 O11
CI COM
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

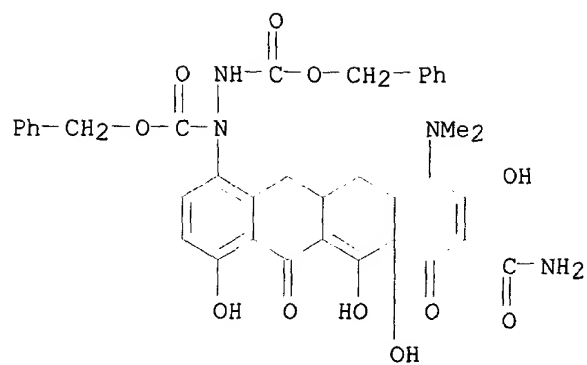


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 70:37557

L48 ANSWER 139 OF 139 REGISTRY COPYRIGHT 2002 ACS
RN 22229-68-1 REGISTRY
CN Bicarbamic acid, [8-carbamoyl-10-(dimethylamino)-5,6a,7,10,10a,11,11a,12-octahydro-4,6,6a,9-tetrahydroxy-5,7-dioxo-1-naphthacenyl]-, dibenzyl ester (8CI) (CA INDEX NAME)
MF C37 H36 N4 O11
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:55886

REFERENCE 2: 70:37557